

BALDOR • RELIANCE

Customer information packet

34G50-872

.5HP, 1725RPM, 3PH, 60HZ, 56CZ, 3416M, TEFC, F1
Continental Pump

Specifications

Enclosure	TEFC
Frame	56CZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.500 A @ 208.0 V 2.000 A @ 230.0 V 1.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	R
Type	AC
Mech. spec.	34G050
Base	
Status	PRD/A
Elec. spec.	34WG0872
Layout	34LYG050
Eff. date	10-25-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	True
Created date	01-01-0001

High Voltage Full Load Amps	1.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	63
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Special Combination
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.									
SPEC.	34G50-872								
HP	.5								
VOLTS	230/460								
AMP	2/1								
RPM	1725								
FRAME	56CZ		HZ	60		PH	3		
SER.F.	1.25	CODE	L	DES	B	CLASS	B		
NEMA-NOM-EFF	74	PF	63						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	TEFC	SN							
	SFA 2.4/1.2								

Parts list

Part number	Description	Quantity
SA005923	SA 34G50-872	1.000 ea
RA002669	RA 34G50-872	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A49	PU ENDPLATE, MACH. W/SPL. HOLES FOR CUST	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HW4600A09	SEAL 0.656 X 1.124 X 0.250 DOUBLE SHIELD	1.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 ea

AC Induction Motor Performance Data

Record # 6598

Typical performance - not guaranteed values

Winding: 34WG0872-R001		Type: 3416M	Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	.5	Full Load Torque	1.5 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	2/1	Breakdown Torque	7 LB-FT		
R.P.M.	1725	Pull-up Torque	4.5 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	5.3 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current	6.5 A
Service Factor (S.F.)	1.25	No-load Current	0.8 A		
NEMA Nom. Eff.	74	Power Factor	63	Line-line Res. @ 25°C	32 Ω
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load		65°C
S.F. Amps	2.4/1.2	Temp. Rise @ S.F. Load		77°C	
			Locked-rotor Power Factor	66	
			Rotor inertia	0.0381 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	43	55	63	69	75	0
Efficiency	53.2	66.4	72.5	74.6	75.3	75.1	0
Speed	1782	1769	1754	1739	1724	1706	0
Line amperes	0.8	0.85	0.92	1.03	1.15	1.25	1.15

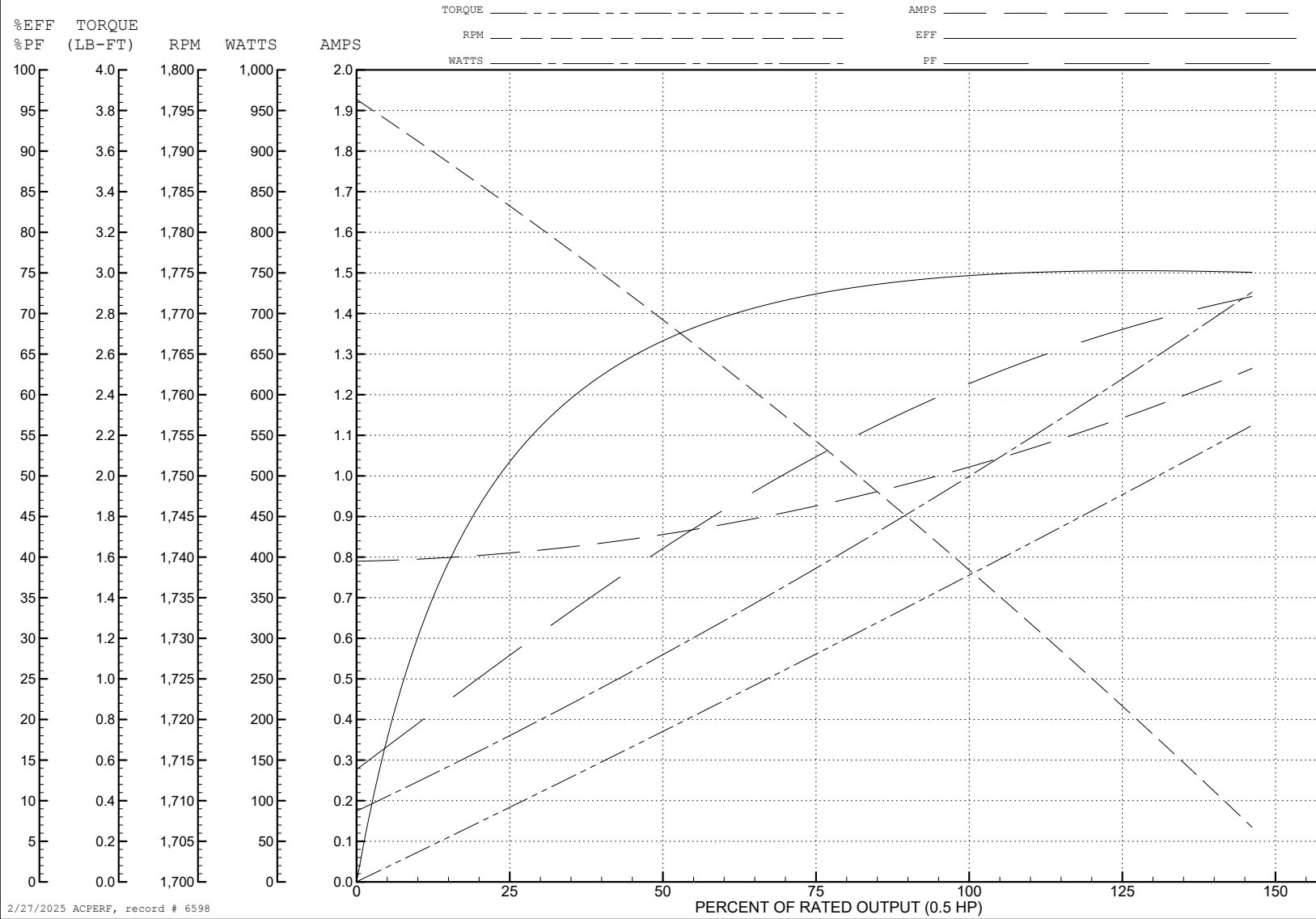
ABB Motors and Mechanical Inc.

WINDING # 34WG0872

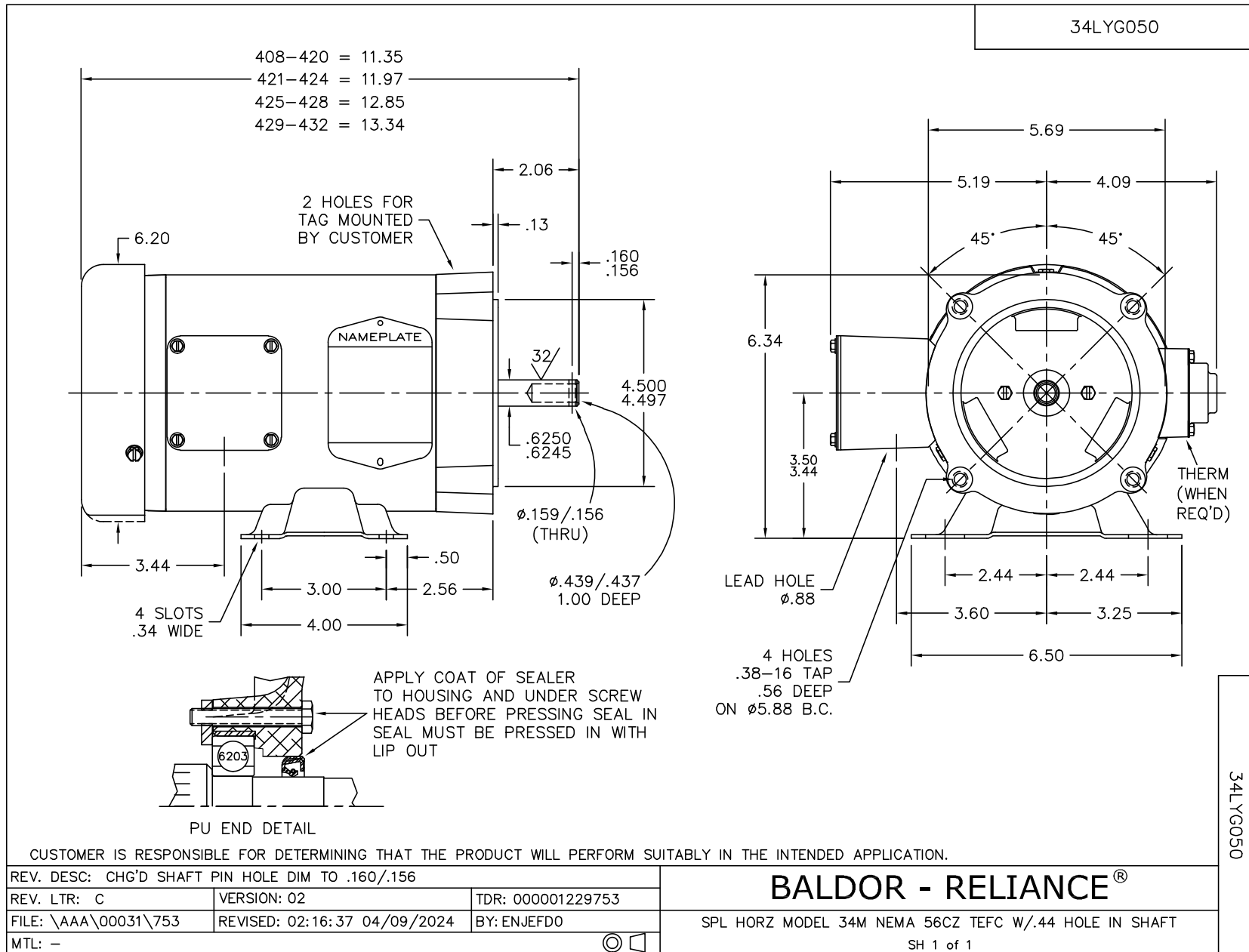
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=7 PU=4.5 LR=5.3 LRA=6.5



2/27/2025 ACPERF, record # 6598



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS